



PATENT APPLICATION
CH-7961
LeA 35,552

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF)
KNUD REUTER ET AL) GROUP NO.: 1756
)
SERIAL NUMBER: 10/762,106)
)
FILED: JANUARY 21, 2004)
)
TITLE: ALKYLENEDIOXYTHIOPENES AND)
POLY(ALKYLENEDIOXYTHIOPENES))
CONTAINING MESOGENIC GROUPS)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.97(b)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

This disclosure statement under 37 CFR 1.97 & 1.98 is submitted before the first Office Action in order that the Patent and Trademark Office may consider the relevancy of certain information to the invention described and claimed in the subject application, and in compliance with the regulations concerning information disclosure statements. Enclosed are copies of the following:

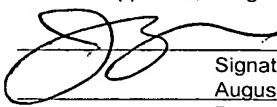
- a) the articles described in the above-identified application,

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an enveloped addressed to: Commissioner for Patents,
Alexandria, VA 22313-1450 8/24/03

Date

Joseph C. Gil, Reg. No. 26,602

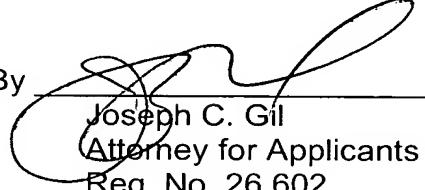
Name of applicant, assignee or Registered Representative


Signature
August 24, 2003
Date

- b) the Search Report received in the corresponding application pending in the European Patent Office; and an English language translation thereof; and
- c) the foreign documents and articles cited by the European Patent Office in the Search Report listed on the attached Form PTO 1449.

This Information Disclosure Statement should not be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, that any reference mentioned herein constitutes prior art, or that the references listed, severally or in any combination with one another or with any other information, are believed to render any claim in the subject application *prima facie* unpatentable.

Respectfully submitted,

By 
Joseph C. Gil
Attorney for Applicants
Reg. No. 26,602

Bayer MaterialScience LLC
100 Bayer Road
Pittsburgh, Pennsylvania 15205-9741
(412) 777-3813
FACSIMILE PHONE NUMBER:
(412) 777-3902
s:\bsh\JCG4097

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office	AUG 26 2004	Atty. Docket No. SCH7961/LeA 35,552	Serial No. 10/762,106
LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)		Applicant Knud Reuter et al		
		Filing Date January 21, 2004	Group 1756	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,987,042	01/22/91	(Bel. to corresp. to EP Jonas et al	339 340) 429	213	
	AB	4,949,430	09/25/90	(Bel. to corresp. to EP Jonas et al	339 340) 526	257	
	AC	4,959,430	09/25/90	(Bel. to corresp. to EP Jonas et al	339 340) 526	257	
	AD	4,987,042	01/22/91	(Bel. to corresp. to EP Jonas et al	339 340) 429	213	
	AE	5,035,926	01/30/91	(Bel. to corresp. to EP Jonas et al	339 340) 427	393.1	
	AF	5,111,327	05/05/92	Blohm et al	526	256	
	AG	5,300,575	04/05/94	(Bel. to corresp. to EP Jonas et al	440 957) 525	186	
	AH	6,130,339	10/10/00	Tan et al	549	50	
	AI	2002/0165338 A1	11/07/02	Martin et al	528	377	
	AJ	2003/0139505 A1	07/24/03	(Bel. to corresp. to EP Reuter et al	1327 645) 524	265	
	AK	2003/0216540 A1	11/20/03	(Bel. to corresp. to EP Reuter e	1 352 918) 528	380	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							Yes No*
	AL	1 321 483	06/25/03	Europe			
	AM	196 43 031	04/23/98	Germany (Abstract attached)			X
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Adv. Mater., 12, No. 7, (month unavailable) 2000, pages 481-494 L. "Bert" Groenendaal et al,
		"Poly (3,4-ethylenedioxythiophene) and Its Derivatives: Past, Present, and Future"
	AS	Adv. Mater., 6, No. 2, (month unavailable) 1994, pages 138-142, Christine Thobie-Gautier et al,
		"Electropolymerization of Thiophene Derivatized with a Mesogenic Substituent"
	AT	Chem. Letters, (month unavailable) 2000, pages 936-937, Masashi Kijima et al, "Synthesis of a
		Novel Ionic Liquid Crystalline Polythiophene Having Viologen Side Chain"

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. CH7961/LeA 35,552	Serial No. 10/762,106
		Applicant Knud Reuter et al	
		Filing Date January 21, 2004	Group 1756

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		Journal of Material Science, 37, (month unavailable) 2002, pages 1767-1775, A. Cirpan et al
			"Synthesis and characterization of conducting copolymers of thiophene-3-yl acetic acid cholesteryl ester with pyrrole"
	AS		Macromolecules 24, (month unavailable) 1991, pages 455-459, G. Daoust et al, "Structure-Property Relationships in Alkoxy-Substituted Polythiophenes"
			Synthetic Metals, 124, (month unavailable) 2001, pages 471-475, K. Krishnamoorthy et al,
	AT		"Electrochromic polymer based on a rigid cyanobiphenyl substituted 3,4-ethylenedioxythiophene"
EXAMINER			DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. CH7961/LeA 35,552	Serial No. 10/762,106
		Applicant Knud Reuter et al	
		Filing Date January 21, 2004	Group 1756

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							Yes	No*
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Synthetic Metals, 102, (month unavailable) 1999, pages 1291, X.M. Dai et al, "Synthesis and properties of polythiophene derivatives with ferroelectric liquid crystalline substituents"
		Krishnamoorthy, K. et al: "Dendronized electrochromic polymer based on poly(3,4-ethylenedioxy-thiophene)" Polymers, 43(24), 6465-6470 Coden: Polmag; ISSN: 0032-3861, 2002, XP000438533
	AS	Kros, Alexander et al: "Poly(3,4-ethylenedioxythiophene)-based copolymers for biosensor applications" Journal of Polymer Science, Part A: Polymer Chemistry, 40(6), 738-747 Coden:
		JPACEC; ISSN: 0887-624X, 2002, XP002244145
EXAMINER		DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

* Neither English Language Equivalent nor an English Language Translation is available.

Form PTO 1449 Rev. 7-80	U.S. Department of Commerce Patent and Trademark Office LIST OF PRIOR ART CITED BY APPLICANT (Use Several Sheets If Necessary)	Atty. Docket No. CH7961/LeA 35,552	Serial No. 10/762,106
		Applicant Knud Reuter et al	
		Filing Date January 21, 2004	Group 1756

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							Yes
	AL						No*
	AM						
	AN						
	AO						
	AP						

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Perepichka, Igor F. et al: "Hydrophilic Oligo(oxyethylen)-Derivatized Poly(3,4-ethylenedioxy-thiophenes): Cation-Responsive Optoelectrochemical Properties and Solid-State Chromism: Chemistry of Materials, 14(1), 449-457 Coden: Cmatex; ISSN: 0897-4756, 2002, XP001182404
		Besbes, Mohamed et al: "Rapid and efficient post-polymerization functionalization of poly(3,4-ethylenedioxythiophene) (PEDOT) derivatives on an electrode surface" Advanced Materials (Weinheim, Germany), 13(16), 1239-1252 Coden: Admew: ISSN: 0935-9648, 2001, XP001130234
	AS	
	AT	

EXAMINER

DATE CONSIDERED

EXAMINER Initial if references considered, whether or not citation is in conformance with MPEP 609: Draw line through if not in conformance and not considered. Include copy of this form with next communication to applicant.

Neither English Language Equivalent nor an English Language Translation is available.